

HHH	HHH	LLL	DDDDDDDDDDDDDD	
HHH	HHH	LLL	DDDDDDDDDDDDDD	
HHH	HHH	LLL	DDDDDDDDDDDDDD	
HHH	HHH	LLL	DDD	DDD
HHH	HHH	LLL	DDD	DDD
HHH	HHH	LLL	DDD	DDD
HHH	HHH	LLL	DDD	DDD
HHH	HHH	LLL	DDD	DDD
HHH	HHH	LLL	DDD	DDD
HHHHHHHHHHHHHHHHHH	LLL	DDD	DDD	
HHHHHHHHHHHHHHHHHH	LLL	DDD	DDD	
HHHHHHHHHHHHHHHHHH	LLL	DDD	DDD	
HHH	HHH	LLL	DDD	DDD
HHH	HHH	LLL	DDD	DDD
HHH	HHH	LLL	DDD	DDD
HHH	HHH	LLL	DDD	DDD
HHH	HHH	LLL	DDD	DDD
HHH	HHH	LLL	DDD	DDD
HHH	HHH	LLL	DDD	DDD
HHH	HHH	LLLLLLLLLLLLLLLL	DDDDDDDDDDDDDD	
HHH	HHH	LLLLLLLLLLLLLLLL	DDDDDDDDDDDDDD	
HHH	HHH	LLLLLLLLLLLLLLLL	DDDDDDDDDDDDDD	



```

LL          IIIIII          SSSSSSSS
LL          IIIIII          SSSSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SSSSSS
LL          II             SSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SS
LLLLLLLLLLLL IIIIII          SSSSSSSS
LLLLLLLLLLLL IIIIII          SSSSSSSS

```



```
0000 1 .TITLE HLDDATA - HLD DATA STORAGE
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6
0000 7 *
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0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 ++
0000 30 FACILITY: DECNET HOST LOADER (HLD)
0000 31
0000 32 ABSTRACT:
0000 33
0000 34 HLD IS A COMPONENT OF DECNET-VAX. IT PROVIDES ACCESS TO
0000 35 RSX11S TASK IMAGES STORED ON A VAX/VMS SYSTEM.
0000 36
0000 37 ENVIRONMENT:
0000 38
0000 39 THE HLD IMAGE EXECUTES IN THE CONTEXT OF A PROCESS CREATED BY
0000 40 NETACP. IT RUNS IN USER MODE AND REQUIRES NETWORK PRIVILEGE.
0000 41
0000 42 AUTHOR: SCOTT G. DAVIS, CREATION DATE: 11-MAY-79
0000 43
0000 44 MODIFICATIONS:
0000 45
0000 46 --
0000 47
0000 48
0000 49 INCLUDE FILES:
0000 50
0000 51
0000 52 MACROS:
0000 53
0000 54 NONE
0000 55
0000 56 .PSECT HLD$PURE NOSHR,NOEXE,RD,NOWRT, LONG
0000 57
```



```

0000 58 : EQUATED SYMBOLS:
0000 59 :
0000200 0000 60 HLD_DISK_SIZE = 512 ;
0000 61 :
00000000 0000 62 HLD$T_TASK == 0 ; OPDATA offset to task name
00000000 0000 63 HLD$W_XFR_SIZE == 0 ; OPTDATA offset to transfer size
00000002 0000 64 HLD$B_NLUNS == 2 ; OPTDATA offset to number of luns to fix
00000004 0000 65 HLD$W_PART_ADDR == 4 ; OPDATA OFFSET TO PARTITION ADDRESS
00000006 0000 66 HLD$W_PART_SIZE == 6 ; OPDATA OFFSET TO PARTITION SIZE
00000008 0000 67 HLD$B_LUN_FLAG == 8 ; OPDATA OFFSET TO LUN-FIXING FLAG
00000009 0000 68 HLD$B_REQUEST == 9 ; OPDATA OFFSET TO REQUEST TYPE
0000000A 0000 69 HLD$L_OVL_VBN == 10 ; OVERLAY REQUEST VBN
0000 70 :
0000 71 : GLOBAL STORAGE:
0000 72 :
0000 73 : DEVICE NAME AND LOGICAL NAME DESCRIPTOR BLOCKS WITH TEXT
0000 74 :
0000 75 :
3A 54 45 4E 5F 00000008'010E0000' 0000 76 HLD$GQ_LNKNAME:: : DEVICE NAME DESCRIPTOR BLOCK
0000 77 .ASCID /_NET:/ : FOR THE LINK
000D 78 HLD$GQ_SYSNAM:: : LOGICAL NAME DESCRIPTOR BLOCK
45 4E 24 53 59 53 00000015'010E0000' 000D 79 .ASCID /SYS$NET/ : FOR SYS$NET
54 001B
001C
00000000 80
0000 81 .PSECT HLD$IMPURE NOSHR,NOEXE,RD,WRT, LONG
0000 82
00000008 0000 83 HLD$GQ_NCBDESC:: .BLKQ 1 : NCB DESCRIPTOR
00000048 0008 84 HLD$GT_NCBBUF:: .BLKB 64 : NCB BUFFER
0000004C 0048 85 HLD$GQ_NODEDESC:: .BLKL 1 : NODE NAME DESCRIPTOR
00000008' 004C 86 .ADDRESS HLD$GT_NCBBUF : NODE IS IN BUFFER
00000058 0050 87 HLD$GQ_LNKIOSB:: .BLKQ 1 : LOGICAL LINK IOSB
000000C8 0058 88 HLD$GQ_PRTBUF:: .LONG 200 : PRINT BUFFER DESCRIPTOR
000002D0' 005C 89 .ADDRESS HLD_AB_PRTBUF
00000062 0060 90 HLD$GW_LNKCHN:: .BLKW 1 : LOGICAL LINK CHANNEL
0000' 0062 91 HLD$GW_IOFUNC:: .WORD IOS_ACCESS : HOLDS I/O FUNCTION - START WITH CONFIRM
0000' 0064 92 HLD$GW_SAVEFUNC:: .WORD IOS_WRITEVBLK : HOLD NETWORK READ/WRITE FUNCTION
0066 93 HLD$GL_IOROUT 1::
00000000' 0066 94 .ADDRESS HLD$DISK_READ : ADDRESS OF I/O ROUTINE 1
006A 95 HLD$GL_IOROUT 2::
00000000' 006A 96 .ADDRESS HLD$NET_IO : ADDRESS OF I/O ROUTINE 2
00000000 006E 97 HLD$GL_IOPARAM1:: .LONG 0 : HOLDS I/O P1
00000076 0072 98 HLD$GL_IOPARAM2:: .BLKL 1 : HOLDS I/O P2
0000007A 0076 99 HLD$GT_OPER:: .BLKA 1 : HOLDS ADDRESS OF REQUEST TYPE
0000007C 007A 100 HLD$GW_PRTLEN:: .BLKW 1 : LENGTH OF PRINT BUFFER
0200 007C 101 HLD$GW_IOLEN:: .WORD 512 : Length of non-overlay block transfer
00 007E 102 HLD$GB_ERRORFLG:: .BYTE 0 : NUMBER OF ERROR MESSAGE, IF ANY
00 007F 103 HLD$GB_MAPFLAG:: .BYTE 0 : TASK FLAG - 0=>MAP (DEFAULT)
0080 104 : 1=>UNM
01 0080 105 HLD$GB_GPFLAG:: .BYTE 1 : General purpose task flag - 1=>GP
00 0081 106 HLD$GB_LUNFLAG:: .BYTE 0 : Lun-fixing flag
06 0082 107 HLD$AT_TSKBUF:: .BYTE 6 : FIXED LENGTH OF TASK NAME
00000089 0083 108 .BLKB 6 : FOR HOLDING COUNTED DECODED TASK NAME
0089 109
0089 110
0089 111 .ALIGN LONG : REQUIRED FOR FABS AND RABS
008C 112
008C 113 HLD$TSKFAB:: : FAB FOR TASK FILE

```



```
008C 114          $FAB      DNM=<.TSK> -          ; DEFAULT FILE TYPE
008C 115          FAC=<BIO,GET,PUT>          ; BLOCK I/O, READ, WRITE
00DC 116
00DC 117 HLD$TSKRAB::          ; RAB FOR TASK FILE
00DC 118          $RAB      FAB=HLD$TSKFAB -          ;
00DC 119          BKT=1 -          ; START WITH LABEL BLOCK
00DC 120          ROP=BIO -          ; BLOCK I/O
00DC 121          UBF=HLD$AB_BUFFER -          ; BUFFER
00DC 122          USZ=HLD_DISK_SIZE          ; BLOCK SIZE
0120 123
000000B8 0120 124 HLD$GL_TSKFNA == HLD$TSKFAB+FAB$FNA ; FOR STUFFING FILESPEC ADDRESS
000000C0 0120 125 HLD$GB_TSKFNS == HLD$TSKFAB+FAB$B_FNS ; FOR STUFFING FILESPEC SIZE
00000114 0120 126 HLD$GL_TSKBKT == HLD$TSKRAB+RAB$BKT ; FOR STUFFING BLOCK NUMBER
0120 127
0120 128          .ALIGN LONG
0120 129
0120 130 HLD$PRTFAB::          ; FILE ACCESS BLOCK
0120 131          $FAB      FAC=PUT-
0120 132          RAT=CR-
0120 133          FNM=<SYSS$OUTPUT>
0170 134 HLD$PRTRAB::          ; RECORD ACCESS BLOCK
0170 135          $RAB      FAB=HLD$PRTFAB-
0170 136          RBF=HLD_AB_PRTBUF-
0170 137          RSZ=0          ; T.B.S. DYNAMICALLY
01B4 138
01B4 139          .ALIGN LONG
01B4 140
01B4 141 HLD$DATFAB::          ; FAB FOR TASK HLD.DAT TASK FILE
01B4 142          $FAB      FAC=GET -
01B4 143          FNM=<SYSS$SYSTEM:HLD.DAT> - ;
01B4 144          FOP=SQO
0204 145
0204 146 HLD$DATRAB::          ; RAB FOR HLD.DAT
0204 147          $RAB      FAB=HLD$DATFAB -
0204 148          UBF=HLD_AB_NAMEBUF -
0204 149          USZ=200
0248 150
00000226 0248 151 HLD$GW_DATRSZ == HLD$DATRAB+RAB$W_RSZ ; ADDRESS OF RECORD LENGTH
0000022C 0248 152 HLD$GL_DATRBF == HLD$DATRAB+RAB$L_RBF ; ADDRESS OF RECORD POINTER
0000024C 0248 153 HLD$GL_RECEND:: .BLKL 1          ; POINTER BEYOND END OF RECORD
024C 154
000002D0 024C 155 HLD_AB_NAMEBUF: .BLKB 132          ; FOR MATCHING TASK NAME, ETC.
02D0 156 HLD_AB_PRTBUF:          ; PRINT BUFFER
00000398 02D0 157          .BLKB 200          ; SAVE SOME SPACE
00000598 0398 158 HLD$AB_BUFFER:: .BLKB HLD_DISK_SIZE ; I/O BUFFER
0598 159
0598 160          .END
```



HLDDATA  
Symbol table

- HLD DATA STORAGE

I 1

16-SEP-1984 01:40:23 VAX/VMS Macro V04-00  
5-SEP-1984 01:28:16 [HLD.SRC]HLDDATA.MAR;1

Page 4  
(1)

```

$$TAB          = 00000204 R    02
$$TABEND       = 00000248 R    02
$$TMP          = 00000000
$$TMPX         = 0000000E R    04
$$TMPX1        = 00000012
FAB$B_DNS      = 00000035
FAB$B_FNS      = 00000034
FAB$C_BID      = 00000003
FAB$C_BLN      = 00000050
FAB$C_SEQ      = 00000000
FAB$C_VAR      = 00000002
FAB$S_ALQ      = 00000010
FAB$S_DNA      = 00000030
FAB$S_FNA      = 0000002C
FAB$S_FOP      = 00000004
FAB$V_BIO      = 00000005
FAB$V_CHAN_MODE = 00000002
FAB$V_CR       = 00000001
FAB$V_FILE_MODE = 00000004
FAB$V_GET      = 00000001
FAB$V_LNM_MODE = 00000000
FAB$V_PUT      = 00000000
FAB$V_SQO      = 00000006
FAB$W_GBC      = 00000048
HLD$AB_BUFFER  = 00000398 RG    02
HLD$AT_TSKBUF  = 00000082 RG    02
HLD$B_CUN_FLAG = 00000008 G
HLD$B_NLUNS    = 00000002 G
HLD$B_REQUEST  = 00000009 G
HLD$DATFAB     = 00000184 RG    02
HLD$DATRAB     = 00000204 RG    02
HLD$DISK_READ  = ***** X    02
HLD$GB_ERRORFLG = 0000007E RG    02
HLD$GB_GPFLAG  = 00000080 RG    02
HLD$GB_LUNFLAG = 00000081 RG    02
HLD$GB_MAPFLAG = 0000007F RG    02
HLD$GB_TSKFNS  = 000000C0 RG    02
HLD$GL_DATRBF  = 0000022C RG    02
HLD$GL_IOPARAM1 = 0000006E RG    02
HLD$GL_IOPARAM2 = 00000072 RG    02
HLD$GL_IOROUT_1 = 00000066 RG    02
HLD$GL_IOROUT_2 = 0000006A RG    02
HLD$GL_RECEND  = 00000248 RG    02
HLD$GL_TSKBKT  = 00000114 RG    02
HLD$GL_TSKFNA  = 000000B8 RG    02
HLD$GQ_LNKIOSB = 00000050 RG    02
HLD$GQ_LNKNAM  = 00000000 RG    01
HLD$GQ_NCBDESC = 00000000 RG    02
HLD$GQ_NODEDESC = 00000048 RG    02
HLD$GQ_PRTBUF  = 00000058 RG    02
HLD$GQ_SYSNAM  = 0000000D RG    01
HLD$GT_NCBBUF  = 00000008 RG    02
HLD$GT_OPER    = 00000076 RG    02
HLD$GW_DATRSZ  = 00000226 RG    02
HLD$GW_IOFUNC  = 00000062 RG    02
HLD$GW_IOLEN   = 0000007C RG    02
HLD$GW_LNKCHN  = 00000060 RG    02

```

```

HLD$GW_PRTLEN  = 0000007A RG    02
HLD$GW_SAVEFUNC = 00000064 RG    02
HLD$S_OVL_VBN  = 0000000A G
HLD$NET_ID     = ***** X    02
HLD$PRTFAB     = 00000120 RG    02
HLD$PRTTAB     = 00000170 RG    02
HLD$STSKFAB    = 0000008C RG    02
HLD$STSKRAB    = 000000DC RG    02
HLD$T_TASK     = 00000000 G
HLD$W_PART_ADDR = 00000004 G
HLD$W_PART_SIZE = 00000006 G
HLD$W_XFR_SIZE  = 00000000 G
HLD_AB_NAMEBUF  = 0000024C R    02
HLD_AB_PRTBUF   = 000002D0 R    02
HLD_DISK_SIZE   = 00000200
IOS_ACCESS      = ***** X    02
IOS_WRITEVBLK   = ***** X    02
RAB$B_RAC       = 0000001E
RAB$C_BID       = 00000001
RAB$C_BLN       = 00000044
RAB$C_SEQ       = 00000000
RAB$S_BKT       = 00000038
RAB$S_CTX       = 00000018
RAB$S_RBF       = 00000028
RAB$S_ROP       = 00000004
RAB$V_BIO       = 0000000B
RAB$W_RSZ       = 00000022

```



-----  
! Psect synopsis !  
-----

PSECT name	Allocation	PSECT No.	Attributes																	
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE							
HLD\$PURE	0000001C ( 28.)	01 ( 1.)	NOPIC	USR	CON	REL	LCL	NOSHR	NOEXE	RD	NOWRT	NOVEC	LONG							
HLD\$IMPURE	00000598 ( 1432.)	02 ( 2.)	NOPIC	USR	CON	REL	LCL	NOSHR	NOEXE	RD	WRT	NOVEC	LONG							
\$ABSS	00000000 ( 0.)	03 ( 3.)	NOPIC	USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE							
\$RMSNAM	00000020 ( 32.)	04 ( 4.)	NOPIC	USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE							

-----  
! Performance indicators !  
-----

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.08	00:00:01.23
Command processing	132	00:00:00.60	00:00:03.67
Pass 1	193	00:00:04.66	00:00:14.55
Symbol table sort	0	00:00:00.37	00:00:00.64
Pass 2	55	00:00:00.89	00:00:03.30
Symbol table output	12	00:00:00.08	00:00:00.20
Psect synopsis output	4	00:00:00.03	00:00:00.05
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	434	00:00:06.71	00:00:23.64

The working set limit was 900 pages.  
20804 bytes (41 pages) of virtual memory were used to buffer the intermediate code.  
There were 20 pages of symbol table space allocated to hold 354 non-local and 0 local symbols.  
160 source lines were read in Pass 1, producing 20 object records in Pass 2.  
17 pages of virtual memory were used to define 12 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
\$_255\$DUA28:[HLD.OBJ]HLD.MLB;1	0
\$_255\$DUA28:[SYSLIB]STARLET.MLB;2	9
TOTALS (all libraries)	9

499 GETS were required to define 9 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:HLDDATA/OBJ=OBJ\$:HLDDATA MSRC\$:HLDDATA/UPDATE=(ENH\$:HLDDATA)+LIB\$:HLD/LIB



0186 AH-BT13A-SE  
VAX/VMS V4.0

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